

AP 1001
Figure 1001-8

Three Mile Island Nuclear Station
Special Operating Procedure

SIDE 1
SOP No. 2-53
(From SOP Log Index)
Unit No. 2
Date 4/6/79

NOTE: Instructions and guidelines in AP 1001 must be followed when completing this form.

NRO

1. Title Reduction of Iodine Levels in Aux Bldg From
2. Purpose (Include purpose of SOP) standing water rising N.O.H & Sodium Thiosulfate system

3. Attach procedure to this form written according to the following format.

A. Limitations and Precautions

1. Nuclear Safety
2. Environmental Safety
3. Personnel Safety
4. Equipment Protection

Attached

- B. Prerequisites
- C. Procedure

4. Generated by Yoshito Nagai Date 4/6/79

5. Duration of SOP - Shall be no longer than 90 days from the effective date of the SOP or (a) or (b) below - whichever occurs first.

- (a) SOP will be cancelled by incorporation into existing or new permanent procedure submitted by [Signature]
- (b) SOP is not valid after [Signature]
(fill in circumstances which will result in SOP being cancelled)

6. (a) Is the procedure Nuclear Safety Related?
If "yes", complete Nuclear Safety Evaluation. (Side 2 of this Form) Yes No
- (b) Does the procedure affect Environmental Protection?
If "yes", complete Environmental Evaluation. (Side 2 of this Form) Yes No
- (c) Does the procedure affect radiation exposure to personnel? Yes No

NOTE: If all answers are "no", the change may be approved by the Shift Supervisor. If any questions are answered "yes", the change must be approved by the Unit Superintendent.

7. Review and Approval

Approved - Shift Supervisor [Signature] RB Meli 4-6-79
Date

Reviewed - List members of PORC contacted RF Warner 4/1/79
Date

[Signature] 4/6/79 MC Raman 4/6/79
Date

[Signature] 4/6/79 [Signature] 4/6/79
Date

Approved - Unit Superintendent [Signature] 4/6/79
Date

8. SOP is Cancelled

131 074

Shift Supervisor/Shift Foreman

Date

Attachment to SOP No 2-53

Limitations and Precautions

1. Nuclear Safety None
2. Environmental Safety None
3. Personnel Safety ^{THI}Per Rad Prot Practice
RWP required
Keep bare skin from touching sodium hydroxide and sodium thiosulfate.
(~~Plant~~ Normal Plant Precautions when mixing NaOH and Na₂S₂O₃)
4. Equipment Protection None

B. Prerequisites

Equipment and Chemicals needed.

1. 100 gallon tank with pump on dolly located at Unit 2 Aux Bldg shield door
2. 40 gallons of 20% NaOH
3. 20 gallons of 30% Na₂S₂O₃
4. Black natural rubber hoses approximately ~~100~~¹⁰⁰ ft in length
5. Check operation of pumps for the 100 gallon tank on dolly.
6. Adequate power source available

C. Procedure

Step 1. Add and mix 40 gallons of 20% NaOH and 20 gallons of 30% $\text{Na}_2\text{S}_2\text{O}_3$ into the 100 gallon tank at outside unit 2 Aux Bldg shield door.

Step 2. Run a black rubber hose through the Aux Bldg shield door to a floor drain on elevation 305'-0 at column line AP by A 64 just north of stairwell.

Step 3. Remove drain cover and securely fasten the hose to the floor drain.

Step 4. Connect power to pump motor.

Step 5. Valve line up:

1. Close Drain valve
2. Close Sample valve
3. Open pump discharge valve

Step 6. Start pump motor and pump out the mixture in the tank.

Step 7 Secure the pump

Step 8 Disconnect the hose and leave the
hose inside the Aux Bldg shield door

Step 9 Close the Aux Bldg shield door.